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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/087,273		03/01/2002	John R. Gordon	4616-62430 31			
24197	7590	01/31/2005		EXAM	EXAMINER		
KLARQUI	ST SPAR	RKMAN, LLP	MERTZ, PREMA MARIA				
121 SW SAI	LMON ST	REET					
SUITE 1600			ART UNIT	PAPER NUMBER			
PORTLANI	D. OR 97	7204	1646	1646			

DATE MAILED: 01/31/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	n No	Applicant(s)					
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	Office Action Summary	10/087,27	3	GORDON ET AL.					
	· ·	Examiner	•	Art Unit					
		Prema M N		1646					
Period fo	The MAILING DATE of this communica or Reply	uon appears on the	cover sneet with the c	orrespondence ad	aress				
A SHOTHE I  - Exter after - If the - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICA asions of time may be available under the provisions of 3 SIX (6) MONTHS from the mailing date of this communical period for reply specified above is less than thirty (30) do period for reply is specified above, the maximum statute re to reply within the set or extended period for reply will, reply received by the Office later than three months after ad patent term adjustment. See 37 CFR 1.704(b).	ATION.  7 CFR 1.136(a). In no every cation.  ays, a reply within the statt, only period will apply and will by statute, cause the apply.	nt, however, may a reply be tim tory minimum of thirty (30) days I expire SIX (6) MONTHS from ication to become ABANDONE	ely filed  s will be considered timely the mailing date of this co  ) (35 U.S.C. § 133).	y. ommunication.				
Status	·				,				
1)⊠	Responsive to communication(s) filed of	on <u>02 December 20</u>	<u>004</u> .						
2a) <u></u>	This action is <b>FINAL</b> . 2b)	⊠ This action is n	on-final.						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims								
5)□ 6)⊠ 7)□	Claim(s) <u>87-93</u> is/are pending in the ap 4a) Of the above claim(s) <u>91-93</u> is/are v Claim(s) is/are allowed. Claim(s) <u>87-90</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction	vithdrawn from con	*						
Applicati	on Papers			•					
10)□	The specification is objected to by the E The drawing(s) filed on is/are: a Applicant may not request that any objection Replacement drawing sheet(s) including the The oath or declaration is objected to by	) accepted or b) on to the drawing(s) be e correction is require	e held in abeyance. See ed if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CF					
Priority u	ınder 35 U.S.C. § 119								
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some colon None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.									
Attachmen	t(s)	•	· - <u>-</u> -						
	e of References Cited (PTO-892)	040)	4) Interview Summary Paper No(s)/Mail Da						
3) Inform	te of Draftsperson's Patent Drawing Review (PTO mation Disclosure Statement(s) (PTO-1449 or PT r No(s)/Mail Date 12/30/2002.		5) Notice of Informal P 6) Other:		)-152)				

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#### **DETAILED ACTION**

The Examiner acknowledges that in preparing the Restriction claims 67-86 were correctly renumbered 60-79, respectively. Applicants have canceled claims 1-79 in the amendment of 12/2/2004. New claims 87-93 are pending in the instant application.

#### Election/Restriction

1. Applicant's election of Group 5 (new claims 87-90) in the reply filed on 12/2/2004 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Furthermore, Applicants request rejoinder of the subject matter of Groups 5 and 8 (see In re Ochiai (37 USPQ2d 1127 (Fed. Cir. 1995)), in which a new, unobvious material is used in a known process. Ochiai determined that a process was free of the prior art if it employed a product which was free of the prior art. However, only if the product claims of Group 5 are found allowable, the subject matter of Group 5 will be rejoined with the process claims of Group 8, if the process claims are of the same scope as the allowable product claims.

Claims 91-93 are withdrawn from consideration by the Examiner as drawn to a nonelected invention.

## Specification

2. The drawings have been approved by the Examiner.

## Claim Rejections - 35 USC § 101

3. 35 U.S.C. 101 reads as follows:

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Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter or any new and useful improvement thereof, may obtain a patent therefore, subject to the conditions and requirements of this title.

Claims 87-90 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

The claims embrace the chemokine protein as it occurs *in vivo*. However, since it would that applicants do not intend to claim a naturally occurring product, such as a chemokine circulating in a mammal, amending the claims to require the hand-of-man would obviate this rejection.

# Claim rejections-35 U.S.C. § 112, first paragraph

4. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 87-90 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for: (1) an isolated protein consisting of an amino acid sequence set forth in SEQ ID NO:1; (2) an isolated protein consisting of an amino acid sequence set forth in SEQ ID NO:1 wherein amino acid 30 of SEQ ID NO:1 is Gly instead of Pro; (3) an isolated protein consisting of an amino acid sequence set forth in SEQ ID NO:1 wherein amino acid 10 of SEQ ID NO:1 is Ser instead of Thr; and (4) an isolated protein consisting of an amino acid sequence set forth in SEQ ID NO:1 wherein amino acid 11 of SEQ ID NO:1 is Phe instead of his, does not reasonably provide enablement for an antagonist comprising an amino acid sequence substantially equivalent to the amino acid sequence set forth in SEQ ID NO:1. The specification

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does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to the invention commensurate in scope with these claims.

With respect to new claim 87, the specification does not enable a protein "substantially equivalent to.... SEQ ID NO:1". The specification does not enable the skilled artisan to make and/or use polypeptides that have substantially the same amino acid sequence as the one disclosed. The issue here is how substantial must the sequence identity be, and what amino acids constitute this identity? The specification does not teach which residues can be conservatively substituted without affecting the functional activity of the protein. It is known to the skilled artisan that conservative amino acid substitutions outside of the active site of a protein will not affect the functional activity of the protein; however, amino acid substitutions, even conservative alterations, within the active site can inactivate the protein or change its functional activity. Absent the specific degree of sequence identity, it is unpredictable if the claimed protein would also possess the same antagonist activity as the polypeptide having the amino acid sequence of SEQ ID NO:1. Thus, without guidance as to which residues can be conservatively substituted, the skilled artisan would not be able to make and/or use polypeptides substantially equivalent to the amino acid sequence as the polypeptide having the amino acid sequence of SEQ ID NO:1.

# Claim Rejections - 35 USC § 112, second paragraph

5. Claims 87-90 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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Claim 87 is rejected as vague and indefinite for reciting "substantially equivalent to ..SEQ ID NO:1". It is unclear how substantially identical the amino acid sequence should be, is it 50% the same, 75% the same or something else?

Claims 88-90 are rejected as vague and indefinite insofar as they depend on the above claims for their limitations.

## Claim Rejections - 35 USC § 102

- 6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
  - (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 87 is rejected under 35 U.S.C. 102(b) as being anticipated by WO 97/00601 (1997).

The reference teaches an IL-8 mutant that is an antagonist to IL-8 and comprises an amino acid sequence that is substantially equivalent to the amino acid sequence of SEQ ID NO:1 of the protein of the instant invention (see abstract; page 1, lines 15-18 and See attached Sequence comparison A). Therefore, the IL-8 mutant of the reference anticipates instant claim 87.

#### Conclusion

No claim is allowed.

#### **Advisory Information**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Prema Mertz whose telephone number is (571) 272-0876. The examiner can normally be reached on Monday-Friday from 7:00AM to 3:30PM (Eastern time).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anthony Caputa, can be reached on (571) 272-0829.

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Official papers filed by fax should be directed to (571) 273-8300. Faxed draft or informal communications with the examiner should be directed to (571) 273-0876.

Information regarding the status of an application may be obtained from the Patent application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Prema Mertz Ph.D. Primary Examiner Art Unit 1646 January 25, 2005